

# Connection Machine® System Specifications

---

## Typical Applications Performance\*

General Computing	1,000 Mips
Document Search	6,000 Mips
Fluid Flow Simulation	7,000 Mips
Stereo Matching	1,000 Mips
<b>Sorting</b>	
65,536 32-bit values	33 milliseconds

## Interprocessor Communications

(32-bit messages)	
Regular Pattern	250 million/second
Random Pattern	70 million/second

## Variable Word Length Arithmetic

64-bit integer add	1,150 Mips
32-bit integer add	1,980 Mips
16-bit integer add	2,600 Mips
8-bit integer add	4,600 Mips
64-bit move	1,240 Mips
32-bit move	2,350 Mips
16-bit move	4,100 Mips
8-bit move	6,600 Mips

## Connection Machine System

Processors	65,536
Memory Size	32 Mbytes
Clock Rate	4 Mhz

## Bandwidth

Memory	256,000 million bits/second
I/O	500 million bits/second

## Physical Dimensions

Size:	56" × 56" × 62"
Weight:	2,600 lbs.

## Environmental Requirements

(does not include host)

Power Dissipation	25 KW
Power Input	Four 30-amp 3-phase 110/208v
Operating Temperature	70°F ± 5°F
Operating Relative Humidity	50% ± 10%

**Thinking Machines Corporation**  
245 First Street  
Cambridge, MA 02142-1214  
(617) 876-1111

Thinking Machines Corporation has measured its product carefully. We believe that all specifications are accurate as of the date of publication. Thinking Machines Corporation can not, however, be responsible for inadvertent errors. Product specifications are subject to change without notice.

\*Millions of instructions per second

®Connection Machine is a registered trademark of Thinking Machines Corporation.